

1. A biodegradable composition comprising:
at least one soft synthetic thermoplastic biodegradable polymer having a glass transition temperature less than about -10°C. ; and
at least one stiff synthetic thermoplastic biodegradable polymer having a glass transition temperature greater than about 10°C. included in an amount greater than about 55% by combined weight of the soft and stiff biodegradable polymers,
wherein the biodegradable composition is suitable for formation into at least one of sheets or films.

2. A biodegradable composition as defined in claim 1, wherein the stiff biodegradable polymer includes at least one of a modified polyethylene terephthalate in which a portion of the terephthalate groups are substituted with at least one aliphatic diacid, a polyesteramide, polylactic acid, a polylactic acid derivative, a terpolymer including units formed from glycolide, lactide and ϵ -caprolactone, or a polyesteramide formed from at least one diacid, at least one diol, and at least one amino acid.

3. A biodegradable composition as defined in claim 1, wherein the soft biodegradable polymer includes at least one of an aliphatic polyester including units formed from at least one of a lactide or a hydroxyacid having at least 5 carbon atoms, a polyester including units formed from an aliphatic diol, an aliphatic diacid and an aromatic diacid, a polyester including units formed from succinic acid and an aliphatic diol, an aliphatic-aromatic copolyester including units formed from adipic acid, dialkyl terephthalate, and at least one aliphatic diol, polycaprolactone, polyhydroxybutyrate-hydroxyvalerate copolymer, polybutylene succinate, polybutylene succinate adipate, or polyethylene succinate.

- 1 4. A biodegradable composition as defined in claim 1, further including
- 2 thermoplastic starch.
- 3
- 4 5. A biodegradable composition as defined in claim 4, wherein the thermoplastic
- 5 starch is substantially free of plasticizers.
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- 7 6. A biodegradable composition as defined in claim 4, wherein the thermoplastic
- 8 starch is included in an amount of less than about 10% by combined weight of the
- 9 thermoplastic starch and the soft and stiff synthetic biodegradable polymers.
- 10
- 11 7. A biodegradable composition as defined in claim 1, wherein the stiff
- 12 biodegradable polymer is included in a range of about 70% to about 95% by weight of the
- 13 biodegradable polymer blend.
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- 15 8. A biodegradable composition as defined in claim 1, wherein the stiff
- 16 biodegradable polymer has a glass transition temperature greater than about 15° C.
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- 18 9. A biodegradable composition as defined in claim 1, wherein the stiff
- 19 biodegradable polymer has a glass transition temperature greater than about 25° C.
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- 21 10. A biodegradable composition as defined in claim 1, wherein the stiff
- 22 biodegradable polymer has a glass transition temperature greater than about 35° C.
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- 24 11. A biodegradable composition as defined in claim 1, wherein the soft
- 25 biodegradable polymer has a glass transition temperature less than about -20° C.
- 26

19. A biodegradable composition as defined in claim 14, wherein the particulate filler comprises an organic filler.

1 20. A biodegradable composition comprising:

2 at least one soft thermoplastic biodegradable polymer having a glass
3 transition temperature less than about $-10^{\circ}\text{C}.$;

4 at least one stiff synthetic thermoplastic biodegradable polymer having a glass
5 transition temperature greater than about $10^{\circ}\text{C}.$; and

6 at least one solid filler included in an amount of at least about 30% by weight
7 of the biodegradable composition,

8 wherein the biodegradable composition is suitable for formation into at least
9 one of sheets or films.

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11 21. A biodegradable composition as defined in claim 20, wherein the solid filler
12 comprises at least one of an inorganic particulate filler or an organic particulate filler.

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14 22. A biodegradable composition as defined in claim 21, wherein the inorganic
15 particulate filler is included in an amount greater than about 35% by weight of the
16 biodegradable composition.
17

1 23. A biodegradable composition comprising:
2 at least one stiff synthetic thermoplastic biodegradable polymer having a glass
3 transition temperature greater than about 10° C.; and
4 at least one soft thermoplastic biodegradable polymer having a glass
5 transition temperature less than about -10° C., the soft thermoplastic biodegradable
6 polymer optionally comprising thermoplastic starch, with the proviso that the
7 thermoplastic starch is included in an amount of less than 10% by combined weight
8 of the soft and stiff biodegradable polymers;
9 wherein the biodegradable composition is suitable for formation into at least
10 one of sheets or films.

11
12 24. A biodegradable composition as defined in claim 23, wherein the
13 thermoplastic starch is substantially free of plasticizers.
14

1 25. A biodegradable composition comprising:
2 at least one stiff synthetic thermoplastic biodegradable polymer having a glass
3 transition temperature greater than about 10° C.; and
4 at least one soft thermoplastic biodegradable polymer having a glass
5 transition temperature less than about 0° C., the soft thermoplastic biodegradable
6 polymer optionally comprising thermoplastic starch, with the proviso that the
7 thermoplastic starch is substantially free of plasticizers;
8 wherein the biodegradable composition is suitable for formation into blown
9 films.
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